# 10/588667

# JAP20 Rec'd PC7/710 04 AUG 2006

# X16438 rev'd 10-July-2006 (US).ST25.txt SEQUENCE LISTING

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Hertel, JeAnne L
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D form
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D form
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D form
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Xaa His Phe Arg Trp Xaa
1 5
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D form
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Arg Cys His Phe Arg Trp Xaa
1 5
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D form
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D form
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Arg Xaa His Phe Arg Trp Xaa 1
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<223> Synthetic construct
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       ACETYLATION
<220>
```

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X16438 rev'd 10-July-2006 (US).ST25.txt
<221> DISULFID
<222>
      (2)..(7)
<220>
       MISC_FEATURE
<221>
<222>
      (2)..(2)
<223>
      Xaa = homocysteine
<220>
<221>
      MOD_RES
<222>
      (4)..(4)
      D form
<223>
<220>
<221>
      MOD_RES
<222>
      (7)..(7)
<223>
      AMIDATION
<220>
<221>
      MISC_FEATURE
<222>
      (7)..(7)
       Xaa = homocysteine
<400> 195
Arg Xaa His Phe Arg Trp Xaa
1 5
<210>
      196
<211>
      8
<212>
      PRT
<213>
      Artificial
<220>
<223>
      Synthetic construct
<220>
<221>
      MOD_RES
<222>
      (1)..(1)
<223>
      ACETYLATION
<220>
<221>
       DISULFID
<222>
      (3)..(8)
<220>
<221>
      MISC_FEATURE
      (3)..(3)
<222>
<223>
       Xaa = homocysteine
<220>
<221>
       MOD_RES
      (5)..(5)
D form
<222>
<223>
<220>
<221>
      MOD_RES
<222>
      (8)..(8)
<223>
      AMIDATION
<220>
<221>
      MISC_FEATURE
```

```
X16438 rev'd 10-July-2006 (US).ST25.txt
<222>
       (8)..(8)
      Xaa = homocysteine
<400>
      196
Tyr Arg Xaa His Phe Arg Trp Xaa
<210>
      197
<211>
<212>
      PRT
<213>
      Artificial
<220>
<223> Synthetic construct
<220>
<221>
      MOD_RES
<222>
       (1)..(1)
<223>
      ACETYLATION
<220>
<221>
      DISULFID
<222>
      (3)..(9)
<220>
<221> MISC_FEATURE
<222>
      (3)..(3)
<223> Xaa = homocysteine
<220>
<221>
      MOD_RES
<222>
      (6)..(6)
<223>
      D form
<220>
<221> MOD_RES
<222>
      (9)..(9)
<223> AMIDATION
<220>
      MISC_FEATURE
<221>
<222>
      (9)..(9)
<223>
      Xaa = homocysteine
<400> 197
Tyr Arg Xaa Glu His Phe Arg Trp Xaa
<210>
      198
<211>
      6
<212>
      PRT
<213>
      Artificial
<220>
<223>
       Synthetic construct
<220>
<221>
      MOD_RES
```

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x16438 rev'd 10-July-2006 (US).ST25.txt
<222>
      (1)..(1)
<223>
       ACETYLATION
<220>
<221>
       DISULFID
<222>
       (1)..(6)
      S-CH2-S linkage
<223>
<220>
       MOD_RES
<221>
      (3)..(3)
D form
<222>
<223>
<220>
<221>
       MOD_RES
<222>
       (6)..(6)
<223>
       AMIDATION
<400> 198
Cys His Phe Arg Trp Cys
1 5
<210>
       199
<211>
       9
<212>
       PRT
<213>
      Artificial
<220>
<223>
      Synthetic construct
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
<223>
       Xaa = Arg, Tyr-Arg, Tyr-beta-Arg, or is absent
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
       Xaa = a modified amino acid including Arg, citrulline,
<223>
       homoarginine, Leu, Lys, N-isopropyl-Lys, norleucine, ornithine,
       or Val
<220>
<221>
<222>
       MISC_FEATURE
       (1)..(1)
<223>
       Xaa = a modified group including Tyr-Arg, Tyr-citrulline,
       Cya-Arg, Tyr-homoarginine, Tyr-1-beta-homoarginine, Tyr-Lys,
       Tyr-Ser, or Tyr-Val
<220>
<221>
       DISULFID
<222>
       (2)..(8)
       S-S or S-CH2-S disulfide bridge
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       xaa = Cys, homocysteine, or desamino-cysteine; may be D or L form
<223>
<220>
<221>
       MISC_FEATURE
```

```
X16438 rev'd 10-July-2006 (US).ST25.txt
<222>
       (3)..(3)
<223>
       Xaa = Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val,
       Arg, His, Tyr, Trp, Phe, Lys, Leu, cysteic acid, or is absent
<220>
       MISC_FEATURE
<221>
<222>
       (4)..(4)
       Xaa = His, modified His, or modified Ala; D or L form
<223>
<220>
<221>
<222>
       MISC_FEATURE
       (5)..(5)
<223>
       Xaa = Phe, modified Phe, or modified Ala; D or L form
<220>
       MISC_FEATURE
<221>
<222>
       (6)..(6)
<223>
       Xaa = Arg or modified Arg; D or L form
<220>
<221>
       MISC_FEATURE
<222>
       (8)..(8)
<223>
       Xaa = Cys, homocysteine, or modified cysteine or homocysteine
       (such as amide, alcohol, or penicillamine)
<220>
<221>
       MISC_FEATURE
<222>
       (9)...(9)
<223>
       Xaa = Ser-Pro-NH2, Lys-Pro-NH2, Ser-OH, Ser-Pro-OH, Lys-OH, Ser
       alcohol, Ser-Pro alcohol, Arg-Phe-NH2, Glu-NH2, or is absent
<400>
       199
Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa
<210>
       200
<211>
       8
<212>
       PRT
<213>
      Artificial
<220>
<223>
       Synthetic construct
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
<223>
       Xaa = Arg, Tyr-Arg, Tyr-beta-Arg, or is absent
<220>
<221>
       MISC_FEATURE
<222>
<223>
       Xaa = a modified amino acid including Arg, citrulline,
       homoarginine, Leu, Lys, N-isopropyl-Lys, norleucine, ornithine,
       or Val
<220>
<221>
<222>
       MISC_FEATURE
       (1)..(1)
<223>
       Xaa = a modified group including Tyr-Arg, Tyr-citrulline,
       Cya-Arg, Tyr-homoarginine, Tyr-1-beta-homoarginine, Tyr-Lys,
       Tyr-Ser, or Tyr-Val
```

```
<220>
<221>
       DISULFID
<222>
       (2)..(8)
<220>
<221>
       MISC_FEATURE
<222>
       (2)..(2)
       Xaa = Cys or homocysteine
<223>
<220>
<221>
       MISC_FEATURE
<222>
       (3)..(3)
       Xaa = Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, cysteic acid, or is absent
<223>
<220>
<221>
       MOD_RES
<222>
       (4)..(4)
<223>
       His may be optionally substituted, D or L form
<220>
<221>
       MOD_RES
<222>
       (5)..(5)
       Phe may be optionally substituted, D or L form
<223>
<220>
       MISC_FEATURE
<221>
<222>
       (8)..(8)
       Xaa = Cys, homocysteine, or modified cysteine or homocysteine
<223>
       such as amide
<220>
<221>
<222>
       MISC_FEATURE
       (9)..(9)
       Xaa = Ser-Pro-NH2, Lys-Pro-NH2, Ser-OH, Ser-Pro-OH, Lys-OH, Ser
<223>
       alcohol, Ser-Pro alcohol, Arg-Phe-NH2, Glu-NH2, or is absent
<400>
       200
Xaa Xaa Xaa His Phe Arg Xaa Xaa
<210>
       201
<211>
<212>
       PRT
<213>
       Artificial
<220>
<223>
       Synthetic construct
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
<223>
       Xaa = Arg, Tyr-Arg, Tyr-beta-Arg, or is absent
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
       Xaa = a modified amino acid including Arg, citrulline,
<223>
       homoarginine, Leu, Lys, N-isopropyl-Lys, norleucine, ornithine,
       or Val
```

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<220>
<221>
        MISC_FEATURE
<222>
        (1)..(1)
        Xaa = a modified group including Tyr-Arg, Tyr-citrulline,
Tyr-homoarginine, Tyr-1-beta-homoarginine, Tyr-Lys, Tyr-Ser, or
<223>
        Tyr-val
<220>
<221>
<222>
        DISULFID
        (2)..(8)
<220>
<221>
<222>
        MISC_FEATURE
        (2)..(2)
<223>
        Xaa = Cys or homocysteine
<220>
<221>
<222>
        MISC_FEATURE
        (3)..(3)
<223>
        Xaa = Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, or is absent
<220>
<221>
        MOD_RES
<222>
        (4)..(4)
<223>
        His may be optionally substituted, D or L form
<220>
<221>
<222>
        MOD_RES
        (5)..(5)
<223>
        Phe may be optionally substituted, D or L form
<220>
<221>
        MISC_FEATURE
<222>
        (8)..(8)
<223>
        Xaa = Cys, homocysteine, or modified cysteine or homocysteine
        such as amide
<220>
<221>
        MISC_FEATURE
<222>
        (9)..(9)
<223>
        Xaa = Ser-Pro-NH2, Lys-Pro-NH2, Ser-OH, Ser-Pro-OH, Lys-Pro-OH,
        Arg-Phe-NH2, Glu-NH2, or is absent
<400>
        201
Xaa Xaa Xaa His Phe Arg Trp Xaa Xaa
```